

ABSTRACT

An inductor element 10 effectively functions even when formed on a substrate and comprises two upper and lower conductors 1, 2 spirally formed on the front side of a semiconductor substrate 3. The conductors 1, 2 have substantially the same shape. When viewed from the above of the front side of the substrate 3, the two conductors 1, 2 are superposed one on the other almost exactly. Lead wires 6a, 6b are connected to the outer end (outer peripheral end) and the inner end (center end) of the conductor 1, respectively. The outer end of the conductor 1 is connected to the inner end of the conductor 2 through a connection wire 6c. The conductor 1 functions as an inductor conductor and is connected to a circuit provided on the semiconductor substrate 3 through the lead wires 6a, 6b.